

FIG. 1

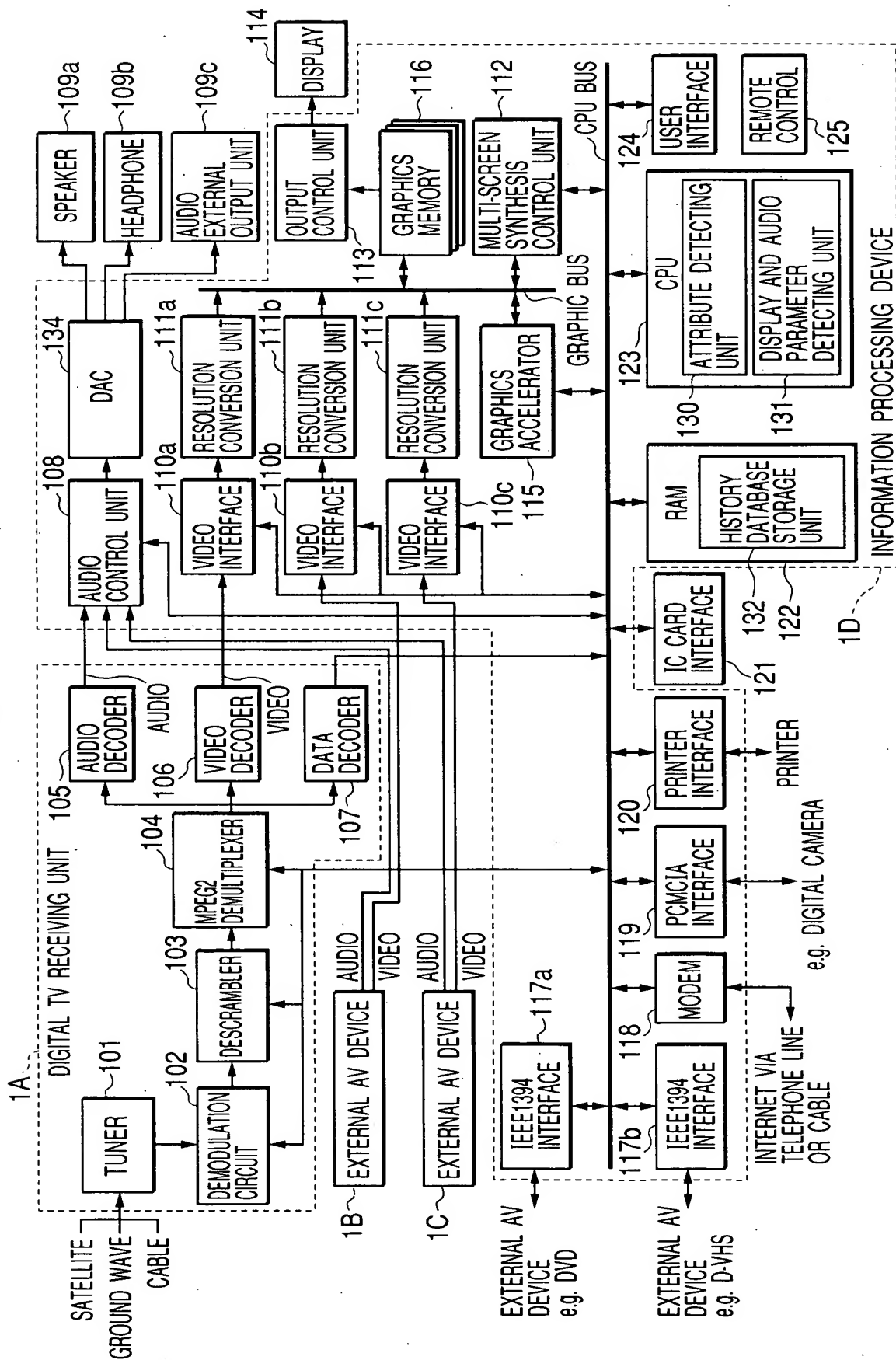
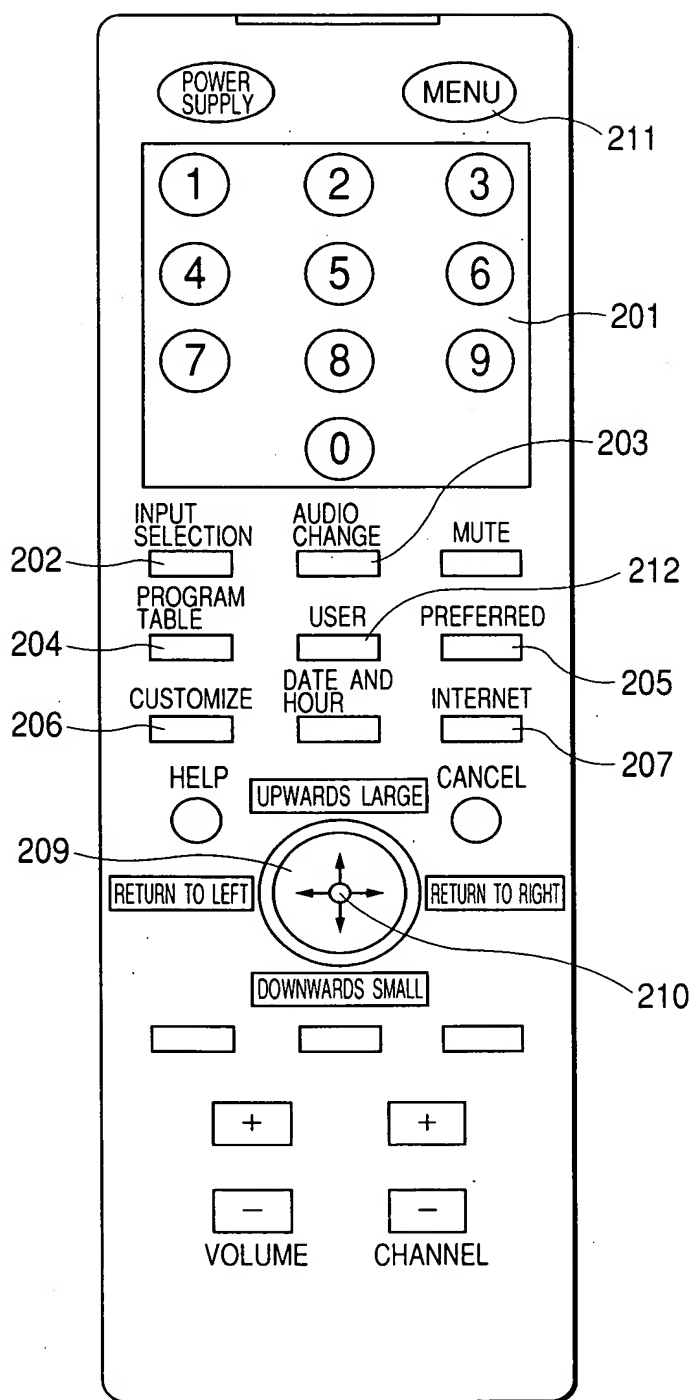
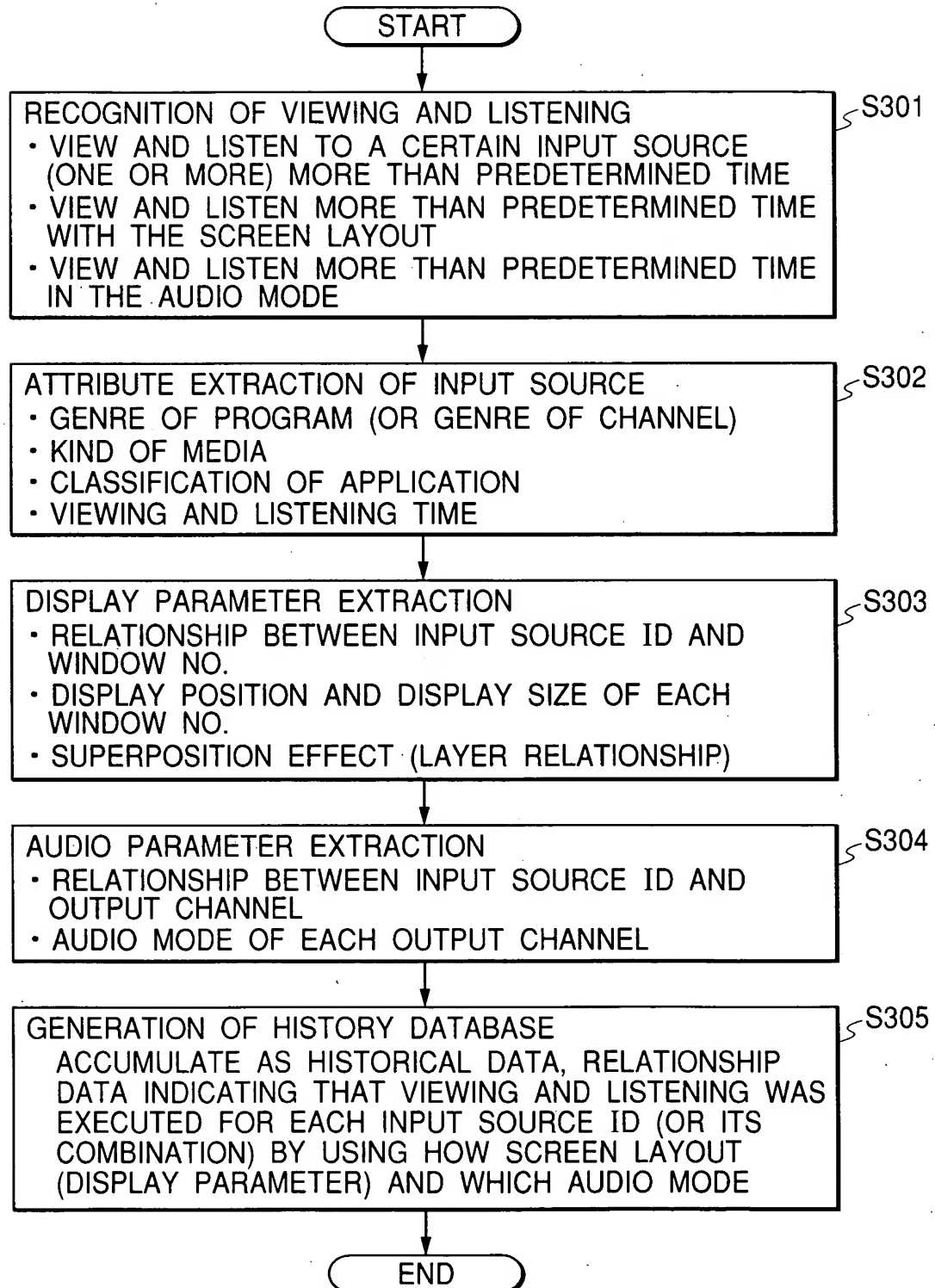


FIG. 2



10044397 121404

FIG. 3

10014397.12401

FIG. 4

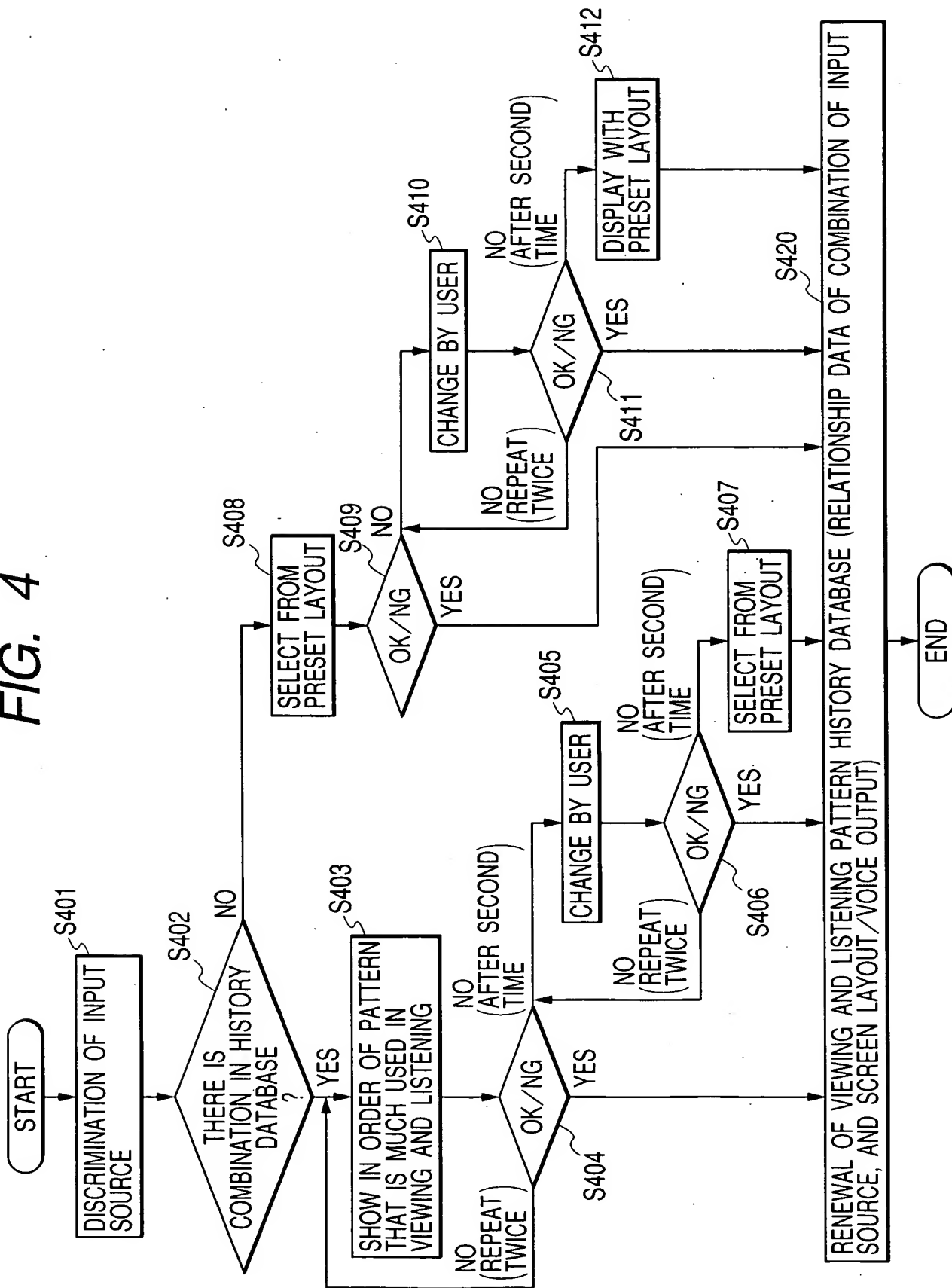


FIG. 5

| |
|--------------------------|
| INPUT SOURCE ID |
| MEDIA |
| (GENRE) |
| (TITLE) |
| (CHANNEL) |
| (THE WHOLE PROGRAM TIME) |
| START TIME |
| APPLICATION |
| RESERVED |

FIG. 6

| |
|----------------------|
| INPUT SOURCE ID |
| (WINDOW NO.) |
| WINDOW START ADDRESS |
| X DIRECTION SIZE |
| Y DIRECTION SIZE |
| DISPLAY EFFECT |
| LAYER |
| RESERVED |

FIG. 7

| |
|-----------------|
| INPUT SOURCE ID |
| OUTPUT CHANNEL |
| AUDIO MODE |
| RESERVED |

FIG. 8A

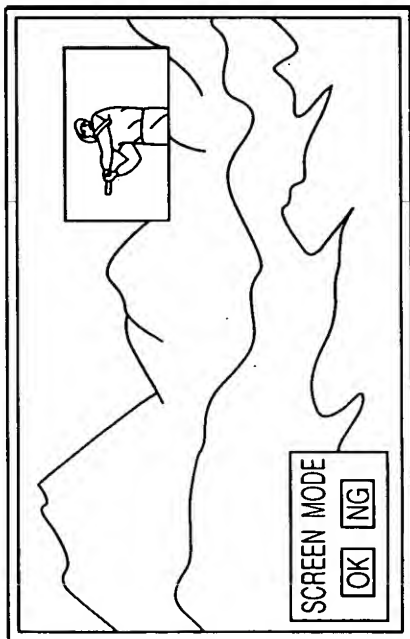


FIG. 8B

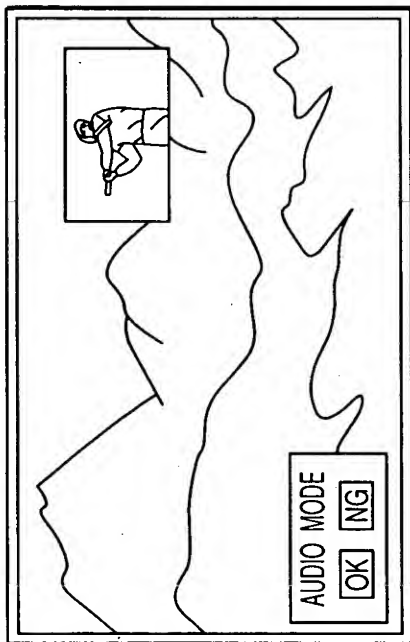


FIG. 9A

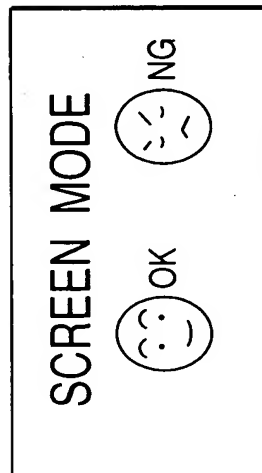


FIG. 9B

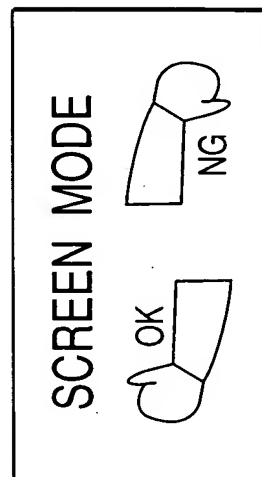
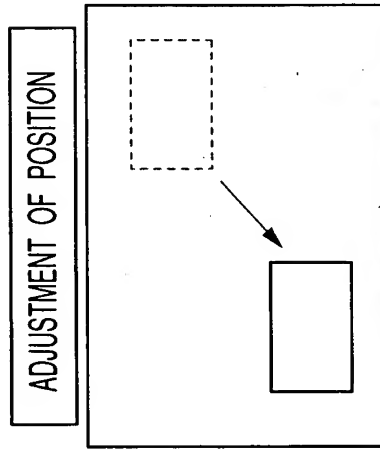


FIG. 10A

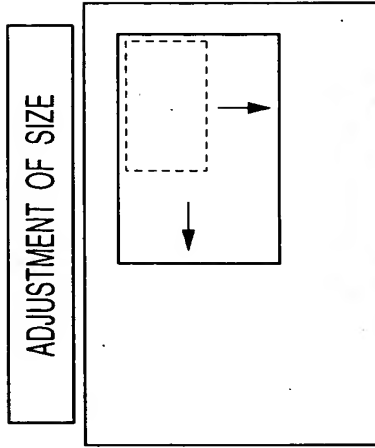


FIG. 10B



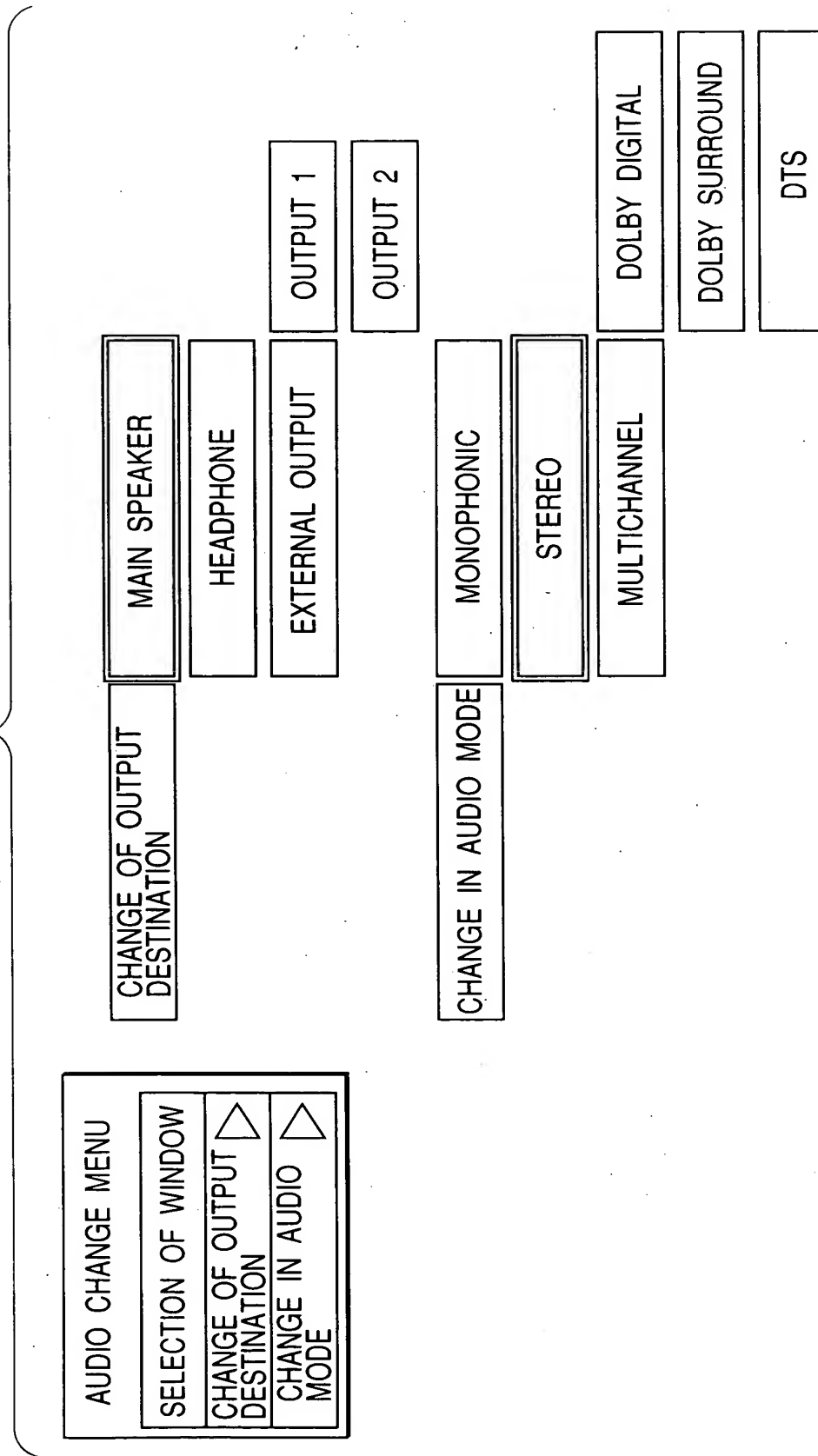
PLEASE ADJUST BY DIRECTION KEY ◀ OF REMOTE CONTROLLER
PLEASE PUSH DETERMINATION KEY AT THE TIME OF O.K.

FIG. 10C



PLEASE ADJUST BY DIRECTION KEY ◀ OF REMOTE CONTROLLER
PLEASE PUSH DETERMINATION KEY AT THE TIME OF O.K.

FIG. 11



| INPUT SOURCE (ATTRIBUTE) | | | | | SCREEN LAYOUT | | | | | AUDIO | | | | | VIEWING AND LISTENING PATTERN |
|--------------------------|-------|----|-------|-------|---------------|--------|-----|-----|-----|-------|----|----|----|----|-------------------------------|
| #1 | #2 | #3 | #4 | #5 | #1 | #2 | #3 | #4 | #5 | #1 | #2 | #3 | #4 | #5 | |
| TV2 | - | - | - | - | L1 | - | - | - | - | M1 | - | - | - | - | A |
| TV3 | TV2 | - | - | - | L1 | L2 | - | - | - | M2 | S1 | - | - | - | B |
| TV4 | ITN1 | - | - | - | L3 | L4 | - | - | - | M2 | M5 | - | - | - | C |
| EXT1 | ITN2 | - | - | - | L1 | L9 | - | - | - | M3 | M5 | - | - | - | D |
| TV3 | ITN2 | - | - | - | L3 | L4-1/2 | - | - | - | M1 | M5 | - | - | - | E |
| TV1 | DATA1 | T1 | - | - | L3 | L10 | L11 | - | - | M4 | M5 | M5 | - | - | F |
| TV1 | DATA1 | T1 | DATA2 | - | L3 | L12 | L13 | L14 | - | M4 | M5 | M5 | M5 | - | G |
| TV1 | DATA1 | T1 | DATA2 | DATA3 | L15 | L12 | L13 | L14 | L16 | M4 | M5 | M5 | M5 | M5 | H |

MEANING OF MARK

INPUT SOURCE

TV1: MEDIA=DIGITAL TV BROADCAST GENRE=NEWS
 TV2: MEDIA=DIGITAL TV BROADCAST GENRE=SPORT
 TV3: MEDIA=DIGITAL TV BROADCAST GENRE=DRAMA
 TV4: MEDIA=DIGITAL TV BROADCAST GENRE=DOCUMENTARY
 EXT1: MEDIA=1394 CONNECTION DEVICE GENRE=MOVIE
 ITN1: MEDIA=INTERNET APPLICATION=INTERNET BROWSER
 ITN2: MEDIA=INTERNET APPLICATION=E-MAIL
 DATA1: MEDIA=DIGITAL DATA TRANSMISSION GENRE=NEWS
 DATA2: MEDIA=DIGITAL DATA TRANSMISSION GENRE=WEATHER REPORT
 T1: MEDIA=INTERNAL FUNCTION APPLICATION=CLOCK DISPLAY

SCREEN LAYOUT

L1: PARAMETER OF WIDE FULL SCREEN DISPLAY
 L2: PARAMETER OF 1/8 SIZE PIP DISPLAY AT SCREEN LOWER RIGHT
 L3: WINDOW OF 2/3 SIZE AT SCREEN LEFT HALF
 L4-1: WINDOW OF 1/16 SIZE AT SCREEN CENTRAL PART
 L4-2: WINDOW OF 1/3 SIZE AT SCREEN RIGHT HALF
 L5 TO L16: DISPLAY PARAMETER OF WINDOW LAYOUT SHOWN IN ANOTHER FIGURE
 L9: PARAMETER OF ICON DISPLAY AT SCREEN LOWER RIGHT

AUDIO MODE

M1: OUTPUT CHANNEL=MAIN SPEAKER MODE=STEREO
 M2: OUTPUT CHANNEL=MAIN SPEAKER MODE=MULTICHANNEL STEREO 1
 M3: OUTPUT CHANNEL=MAIN SPEAKER MODE=MULTICHANNEL STEREO 2
 M4: OUTPUT CHANNEL=MAIN SPEAKER MODE=TWO LANGUAGES
 M5: NON-AUDIO
 S1: OUTPUT CHANNEL=HEADPHONE MODE=STEREO

FIG. 12

10 / 28

FIG. 13

SPORT TV2
DISPLAY PARAMETER L1

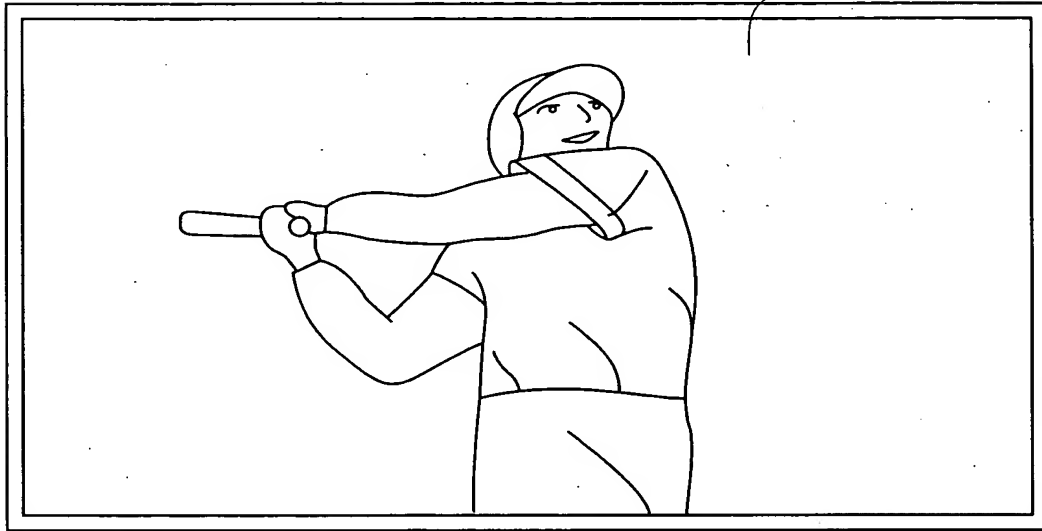
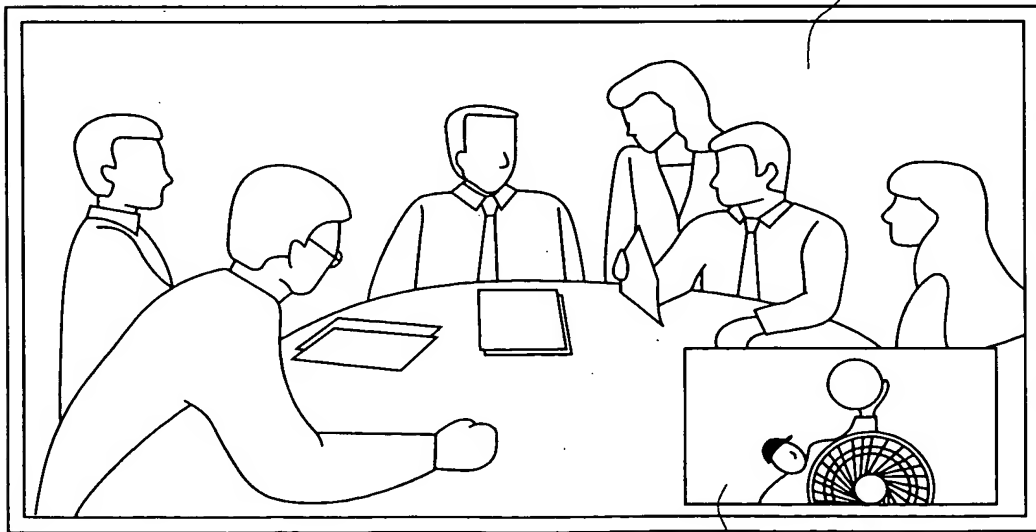


FIG. 14

DRAMA TV3
DISPLAY PARAMETER L1



SPORT TV2
DISPLAY PARAMETER L2

1001499-14494

FIG. 15

DOCUMENTARY TV4
DISPLAY PARAMETER L3

HOMEPAGE BROWSER ITN1
DISPLAY PARAMETER L4-2

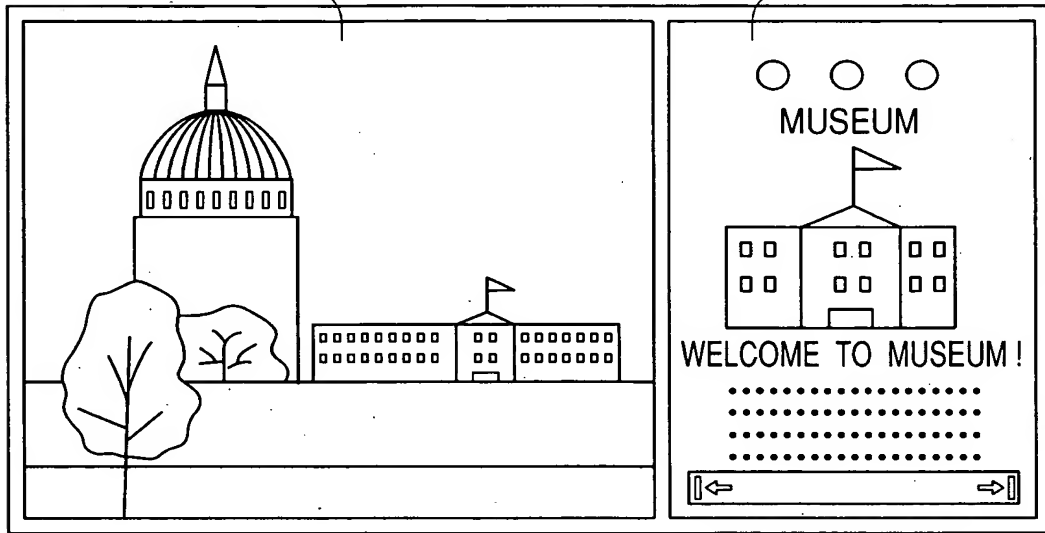
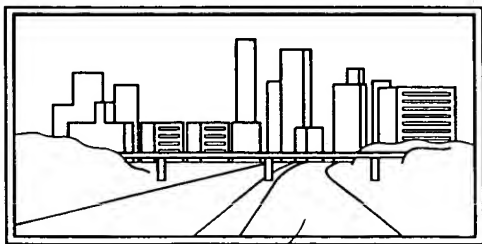
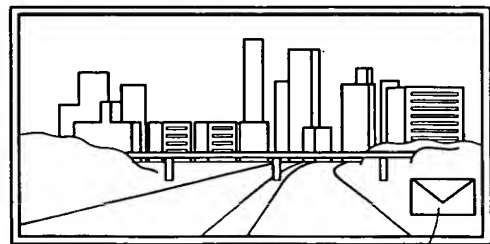


FIG. 16A



MOVIE EXIT1
DISPLAY PARAMETER L1

FIG. 16B



E-MAIL ARRIVAL ITN2
DISPLAY PARAMETER L9
(ICON DISPLAY)

10044397-121404

FIG. 17A

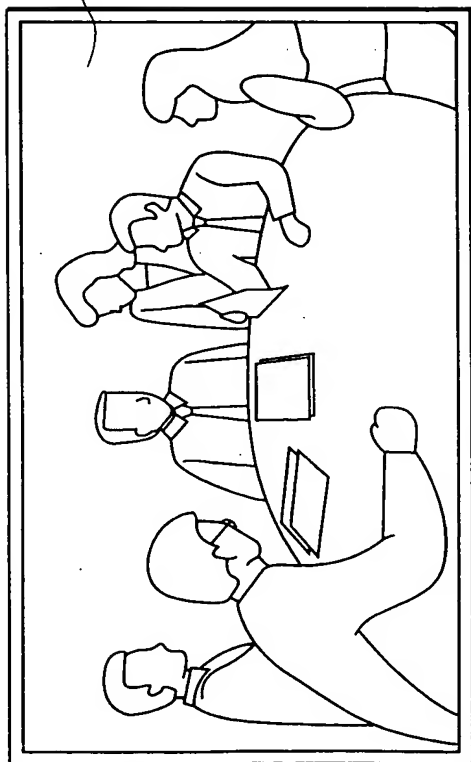
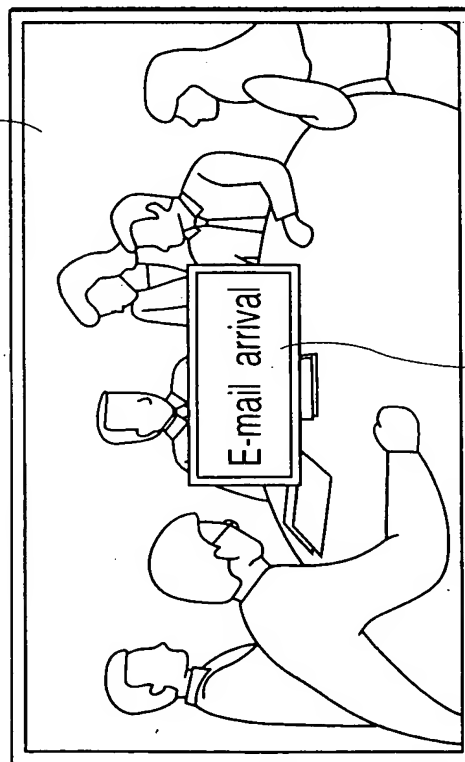
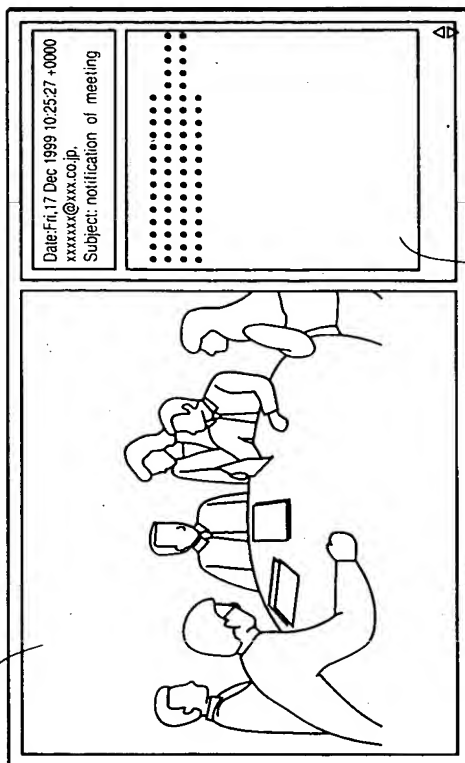


FIG. 17B



DRAMA TV3
DISPLAY
PARAMETER L3

FIG. 17C



Date: Fri, 17 Dec 1999 10:25:27 +0000
xxxxxx@xxx.co.jp.
Subject: notification of meeting

.....

FIG. 18A

NEWS TV1
DISPLAY PARAMETER L1

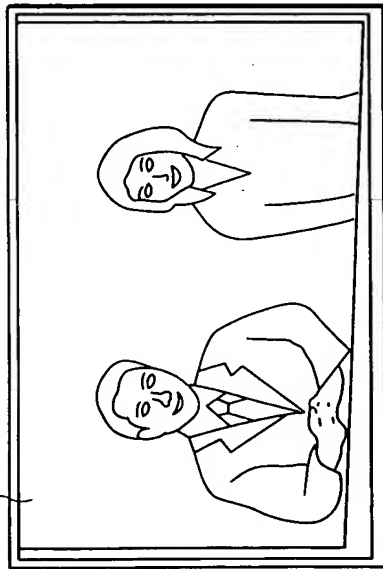
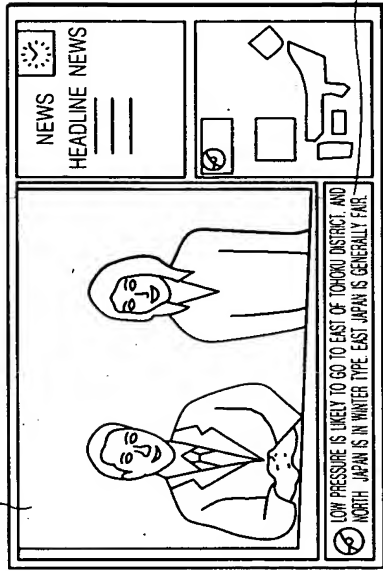


FIG. 18D

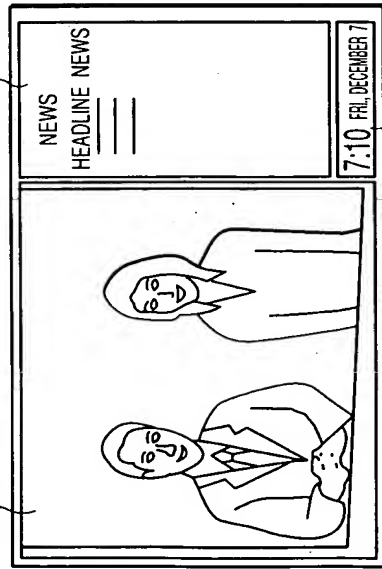
VIEWING AND LISTENING PATTERN H
NEWS TV1
DISPLAY PARAMETER L15



WEATHER REPORT DATA2
DISPLAY PARAMETER L16

FIG. 18B

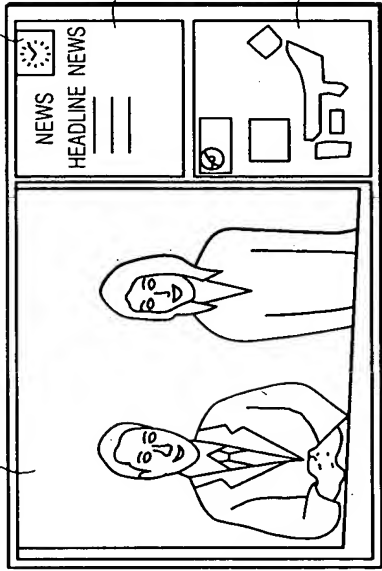
VIEWING AND LISTENING PATTERN F
NEWS TV1
DISPLAY PARAMETER L3
NEWS DATA1
DISPLAY PARAMETER L10



CLOCK DISPLAY T1
DISPLAY PARAMETER L11

FIG. 18C

VIEWING AND LISTENING PATTERN G
NEWS TV1
DISPLAY PARAMETER L3
CLOCK DISPLAY T1
DISPLAY PARAMETER L13



NEWS DATA1
DISPLAY PARAMETER L12

WEATHER REPORT DATA2
DISPLAY PARAMETER L14

FIG. 19

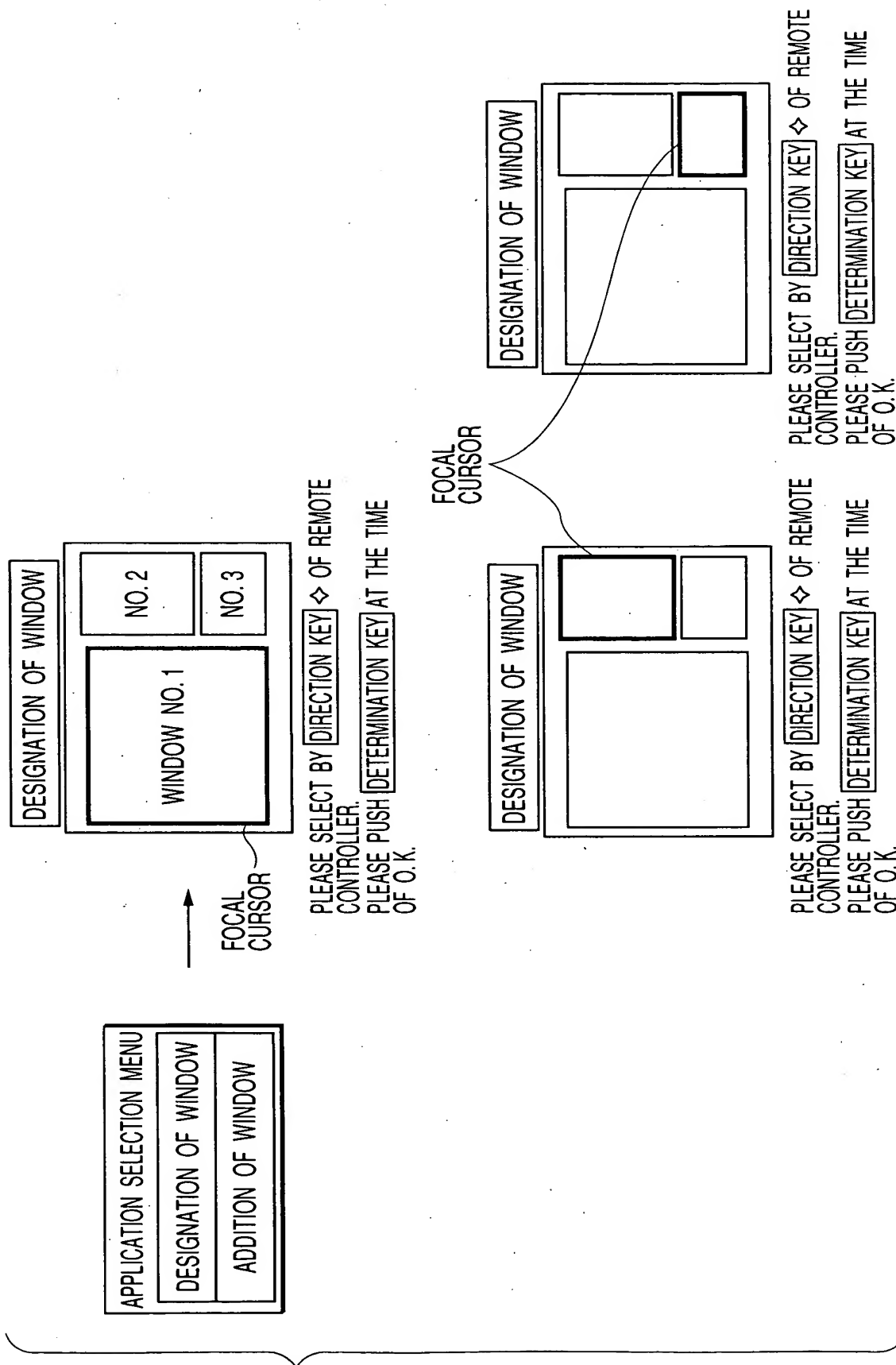


FIG. 20

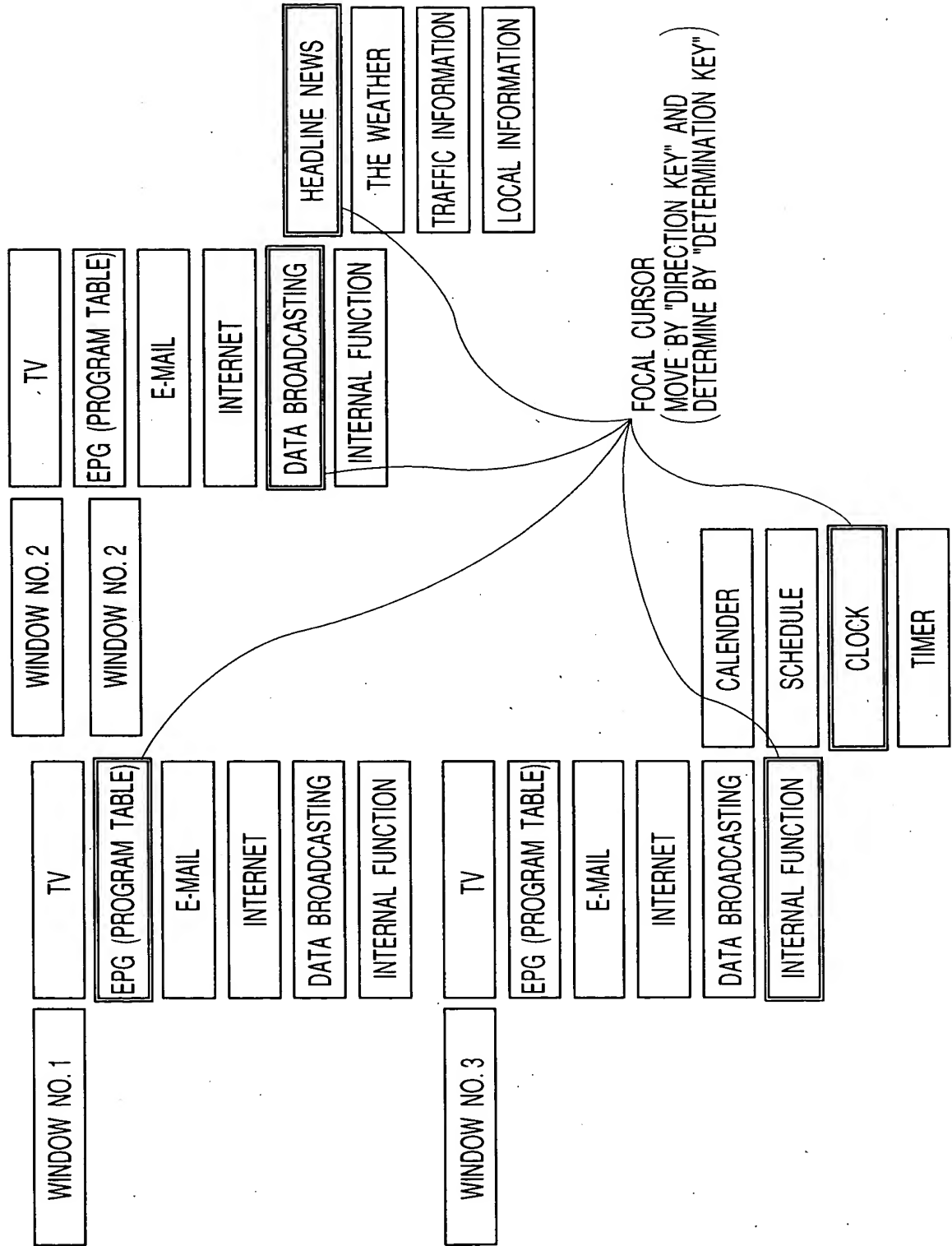


FIG. 21

| TIME ZONE | | INPUT SOURCE (ATTRIBUTE) | | | | SCREEN LAYOUT | | | | VIEWING AND LISTENING | | | | VIEWING AND LISTENING PATTERN |
|-----------|-------------------------------|--------------------------|-------|----|-------|---------------|----|----|----|-----------------------|----|----|----|-------------------------------|
| TIME | DAY OF THE WEEK DAY AND MONTH | #1 | #2 | #3 | #4 | #1 | #2 | #3 | #4 | #1 | #2 | #3 | #4 | |
| 6-7 | MON.-FRI. | TV1 | DATA1 | T1 | DATA2 | L1 | L2 | L3 | L4 | M3 | S2 | M5 | M5 | A |
| 7-8 | MON.-FRI. | TV2 | DATA1 | T1 | DATA3 | L1 | L2 | L3 | L4 | M3 | S2 | M5 | M5 | B |
| 12-1230 | SUNDAY | TV3 | - | - | - | L5 | - | - | - | M1 | - | - | - | C |
| 19-1950 | MON.-FRI. | TV2 | - | - | - | L5 | - | - | - | M1 | - | - | - | D |
| 20-21 | WEDNESDAY 4-9 | TV3 | TV4 | - | - | L5 | L6 | - | - | M1 | S1 | - | - | E |
| 21-23 | TUESDAY 10-12 | TV5 | - | - | - | L5 | - | - | - | M2 | - | - | - | F |
| 21-23 | TUESDAY 10-12 | TV5 | ITN1 | - | - | L5 | L7 | - | - | M2 | M5 | - | - | G |

MEANING OF MARK

INPUT SOURCE

TV1 : MEDIA=DIGITAL TV BROADCAST GENRE=NEWS Ch=8
 TV2 : MEDIA=DIGITAL TV BROADCAST GENRE=NEWS Ch=1
 TV3 : MEDIA=DIGITAL TV BROADCAST GENRE=VARIETY Ch
 TV4 : MEDIA=DIGITAL TV BROADCAST GENRE=SPORT Ch
 TV5 : MEDIA=DIGITAL TV BROADCAST GENRE=MOVIE Ch
 ITN1 : MEDIA=INTERNET APPLICATION=E-MAIL

DATA1 : MEDIA=DIGITAL DATA TRANSMISSION GENRE=NEWS
 DATA2 : MEDIA=DIGITAL DATA TRANSMISSION GENRE=WEATHER REPORT
 DATA3 : MEDIA=DIGITAL DATA TRANSMISSION GENRE=TRAFFIC INFORMATION
 T1 : MEDIA=INTERNAL FUNCTION APPLICATION=CLOCK DISPLAY

SCREEN LAYOUT

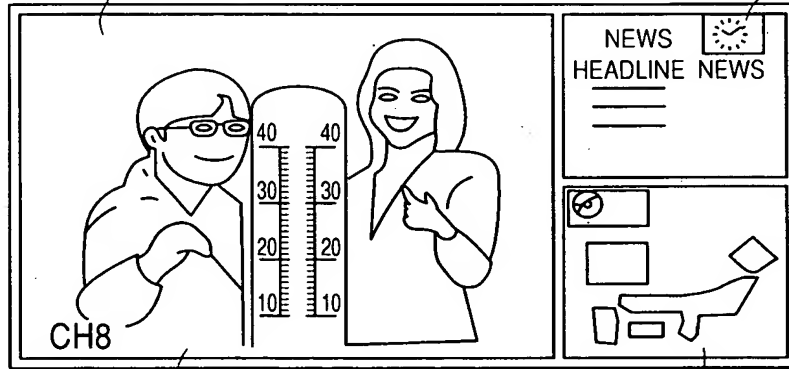
AUDIO MODE

L1 TO L7 : DISPLAY PARAMETER OF WINDOW LAYOUT SHOWN IN ANOTHER FIGURE
 M1 : OUTPUT CHANNEL=MAIN SPEAKER MODE=STEREO
 M2 : OUTPUT CHANNEL=MAIN SPEAKER MODE=MULTICHANNEL STEREO 1
 M3 : OUTPUT CHANNEL=MAIN SPEAKER MODE=TWO LANGUAGES
 M5 : NON-AUDIO
 S1 : OUTPUT CHANNEL=HEADPHONE MODE=STEREO
 S2 : OUTPUT CHANNEL=HEADPHONE MODE=TWO LANGUAGES

FIG. 22

NEWS TV1
SCREEN LAYOUT L1
AUDIO M3
(MAIN SPEAKER/TWO LANGUAGES)

NEWS T1
SCREEN LAYOUT L3
AUDIO M5 (NON-AUDIO)



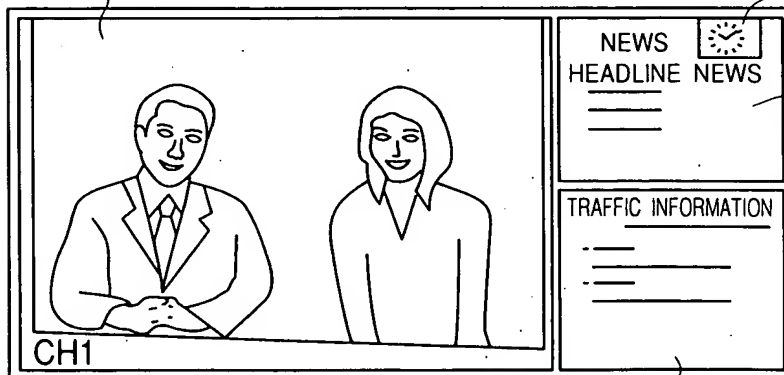
NEWS DATA1
SCREEN LAYOUT L2
AUDIO S2
(HEADPHONE/TWO LANGUAGES)

WEATHER REPORT DATA2
SCREEN LAYOUT L4
AUDIO M5 (NON-AUDIO)

FIG. 23

NEWS TV2
SCREEN LAYOUT L1
AUDIO M3

CLOCK DISPLAY T1
SCREEN LAYOUT L3
AUDIO M5



NEWS DATA1
SCREEN LAYOUT L2
AUDIO S2

TRAFFIC INFORMATION DATA3
SCREEN LAYOUT L4
AUDIO M5

10014297 121101

FIG. 24

VARIETY Ch TV3
SCREEN LAYOUT L5 (WIDE FULL SCREEN)
AUDIO M1 (MAIN SPEAKER/STEREO)

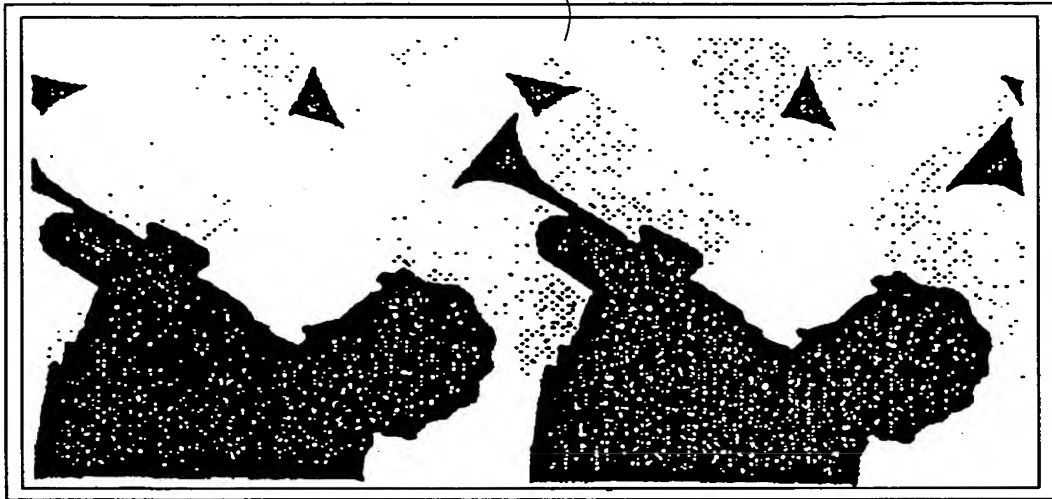


FIG. 25

VARIETY Ch TV3
SCREEN LAYOUT L5 (WIDE FULL SCREEN)
AUDIO M1 (MAIN SPEAKER/STEREO)



VARIETY Ch TV4
SCREEN LAYOUT L6 (LOWER RIGHT 1/8 SIZE PinP)
AUDIO S1 (HEADPHONE/STEREO)

FIG. 26

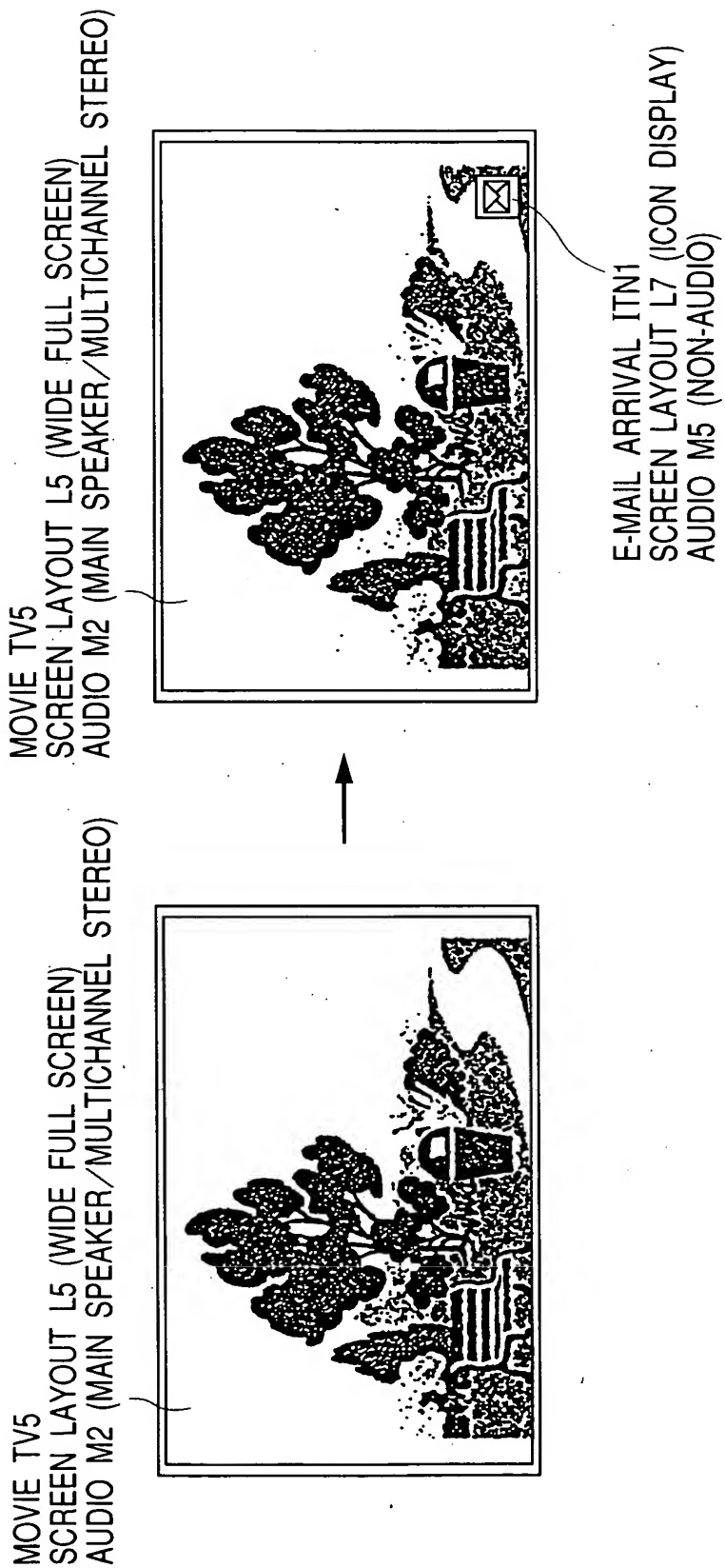
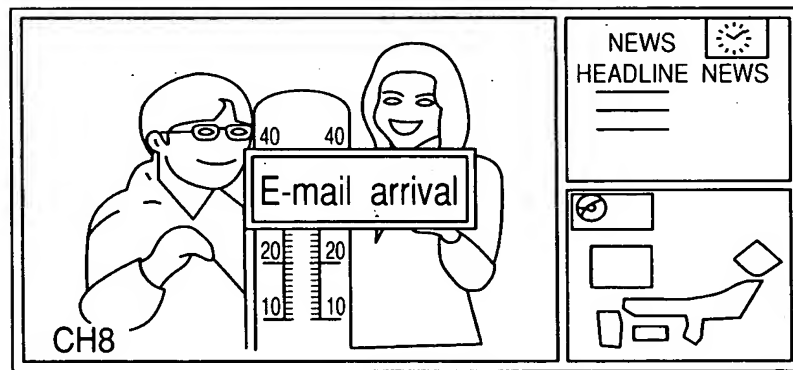


FIG. 27



10044397 124404

FIG. 28

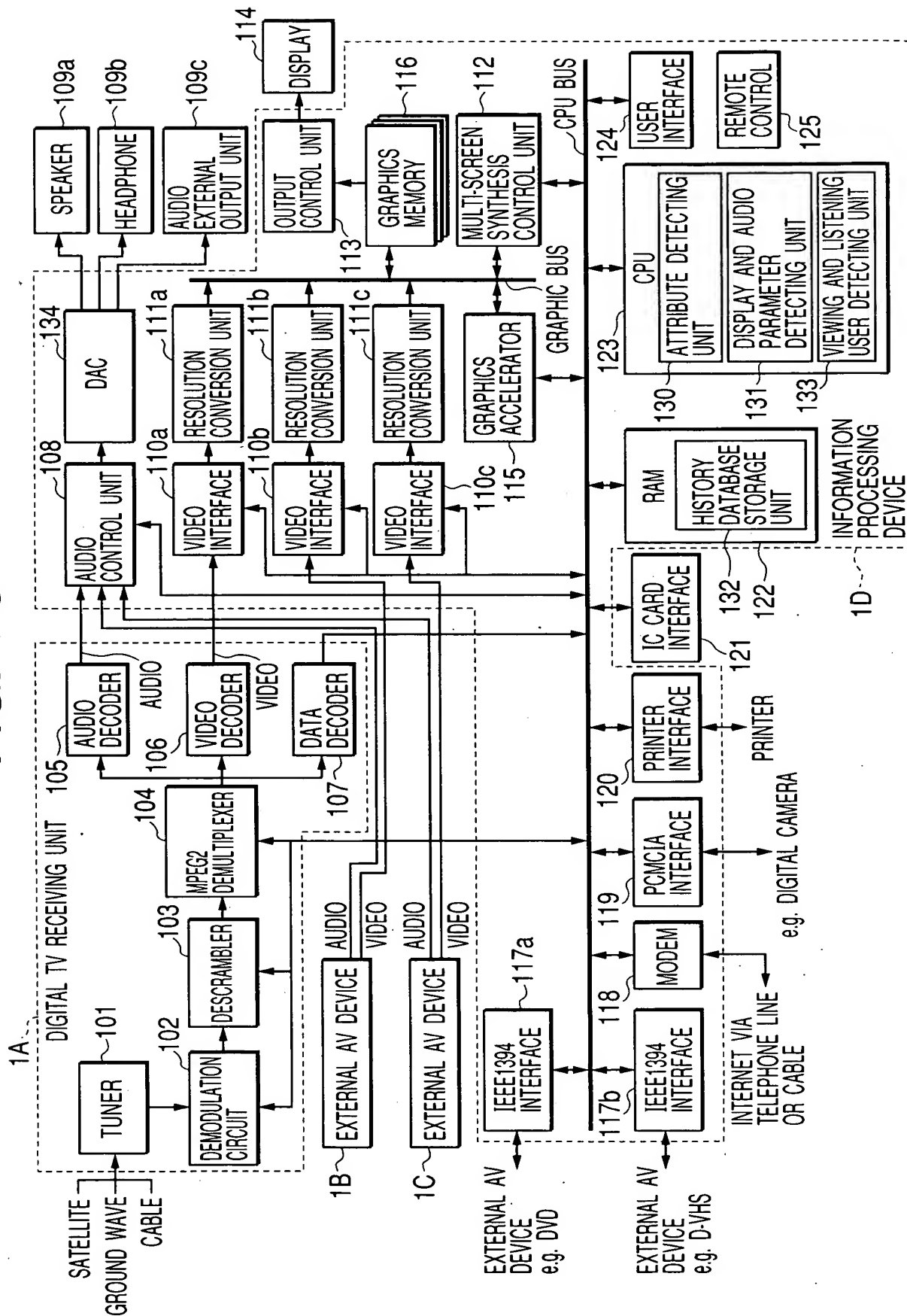


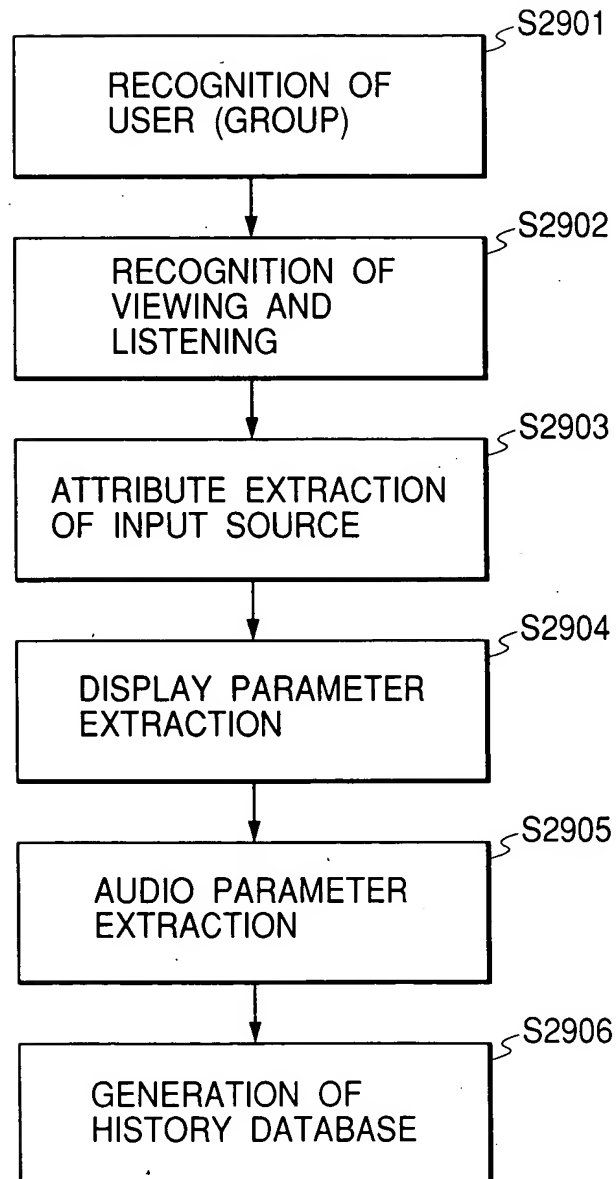
FIG. 29

FIG. 30

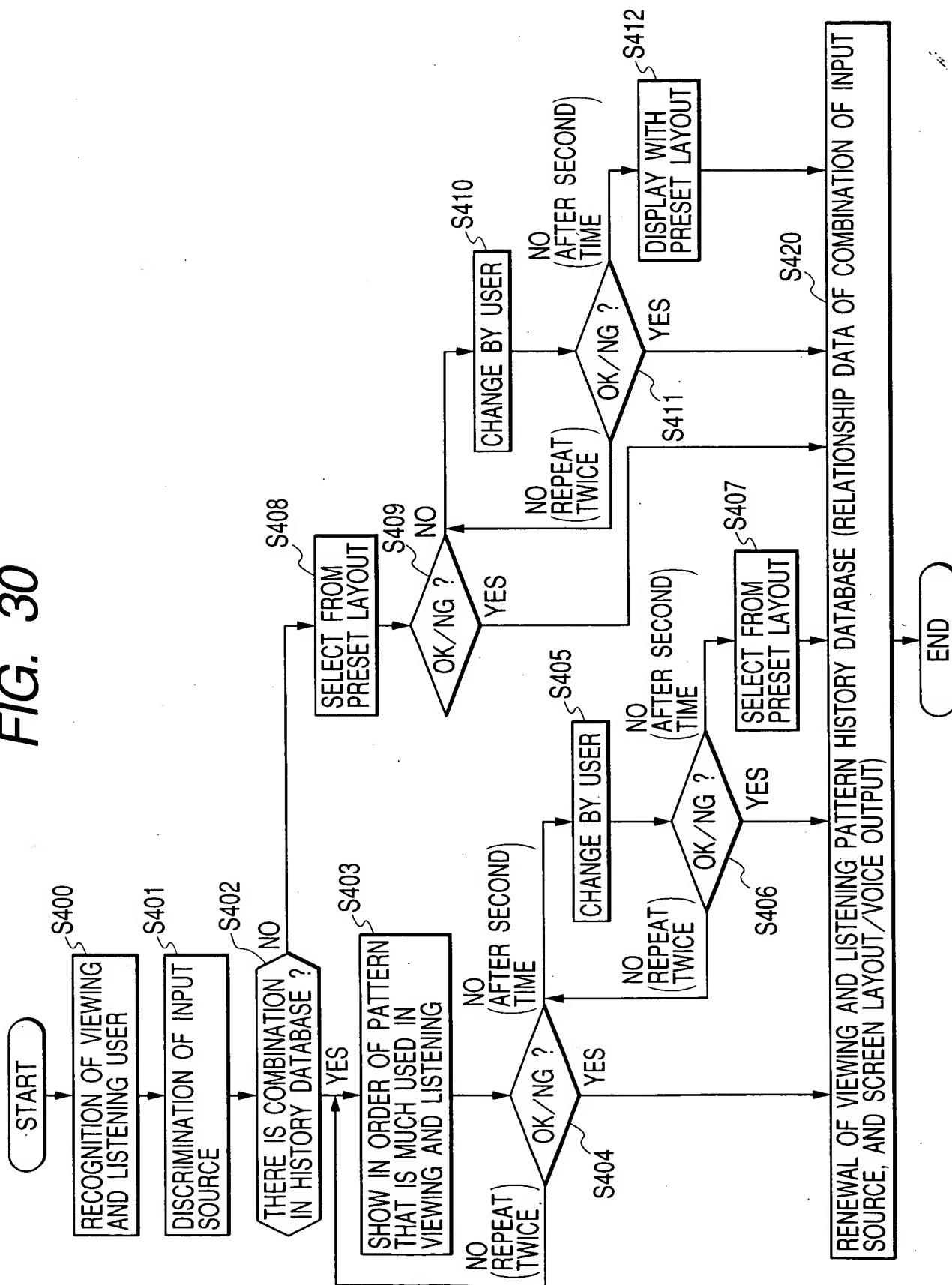


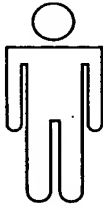

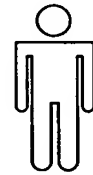



FIG. 31





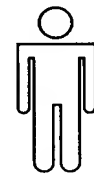

SELECT YOUR CHARACTER

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PLEASE MOVE CURSOR TO PLACE OF FAVORITE CHARACTER AND PUSH SELECTION KEY

FIG. 32

REGISTRATION OF GROUP MEMBER

| | | | | | | |
|---------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| GROUP 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GROUP 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| GROUP 3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

PLEASE MOVE CURSOR TO PLACE OF MEMBER WHO IS REGISTERED AND PUSH SELECTION KEY

FIG. 33

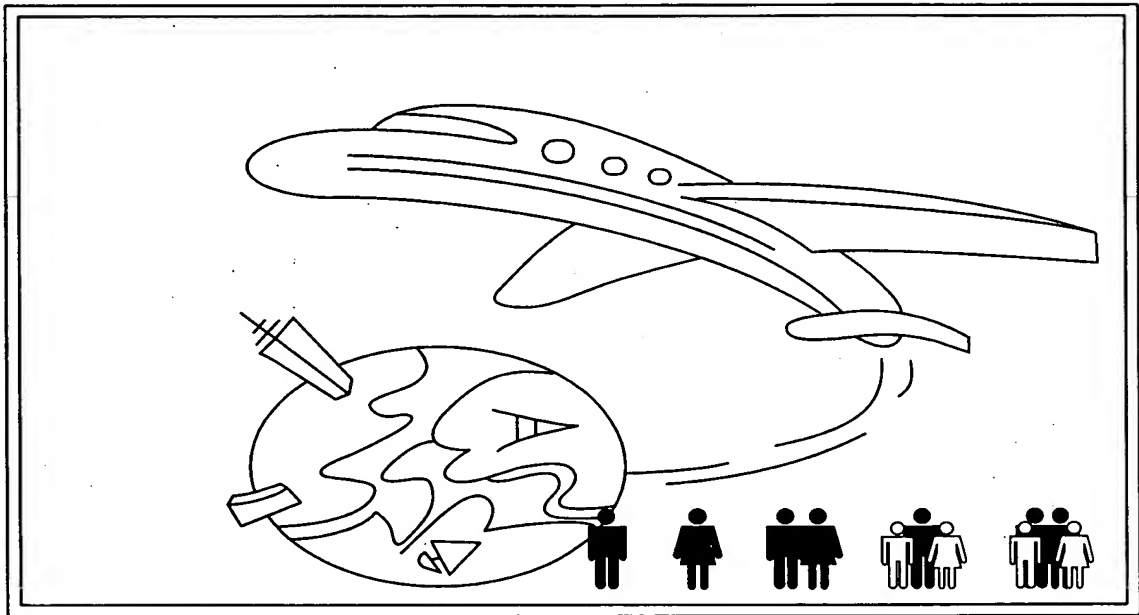


FIG. 34

| USER/USER GROUP | INPUT SOURCE (ATTRIBUTE) | | | | | SCREEN LAYOUT | | | | | AUDIO | | | | | VIEWING AND LISTENING PATTERN |
|-----------------|--------------------------|-------|----|-------|----|---------------|--------|----|----|----|-------|----|----|----|----|-------------------------------|
| | #1 | #2 | #3 | #4 | #5 | #1 | #2 | #3 | #4 | #5 | #1 | #2 | #3 | #4 | #5 | |
| SINGLE A | TV2 | -- | -- | -- | -- | L1 | -- | -- | -- | -- | M1 | -- | -- | -- | -- | A |
| GROUP 1 | TV3 | TV2 | -- | -- | -- | L1 | L2 | -- | -- | -- | M2 | S1 | -- | -- | -- | B |
| SINGLE A | TV4 | ITN1 | -- | -- | -- | L3 | L4 | -- | -- | -- | M2 | M5 | -- | -- | -- | C |
| GROUP 2 | TV5 | DATA1 | -- | -- | -- | L3 | L4 | -- | -- | -- | M1 | S1 | -- | -- | -- | D |
| SINGLE A | EXT1 | ITN2 | -- | -- | -- | L1 | L9 | -- | -- | -- | M1 | -- | -- | -- | -- | E |
| SINGLE A | TV3 | ITN2 | -- | -- | -- | L1/L3 | L4-1/2 | -- | -- | -- | M1 | M5 | -- | -- | -- | F |
| GROUP 3 | TV1 | DATA1 | T1 | DATA2 | -- | L3 | L5 | L6 | L7 | -- | M4 | M5 | M5 | M5 | -- | G |

MEANING OF MARK
INPUT SOURCE

TV1: MEDIA=DIGITAL TV BROADCAST GENRE=NEWS
 TV2: MEDIA=DIGITAL TV BROADCAST GENRE=SPORT
 TV3: MEDIA=DIGITAL TV BROADCAST GENRE=DRAMA
 TV4: MEDIA=DIGITAL TV BROADCAST GENRE=DOCUMENTARY
 TV5: MEDIA=DIGITAL TV BROADCAST GENRE=ANIMATION
 ITN1: MEDIA=INTERNET APPLICATION=INTERNET BROWSER
 ITN2: MEDIA=INTERNET APPLICATION=E-MAIL
 DATA1: MEDIA=DIGITAL DATA TRANSMISSION GENRE=NEWS
 DATA2: MEDIA=DIGITAL DATA TRANSMISSION GENRE=WEATHER REPORT
 T1: MEDIA=INTERNAL FUNCTION APPLICATION=CLOCK DISPLAY

SCREEN LAYOUT

L1: PARAMETER OF WIDE FULL SCREEN DISPLAY
 L2: PARAMETER OF 1/8 SIZE PIP DISPLAY AT SCREEN LOWER RIGHT
 L3: WINDOW OF 2/3 SIZE AT SCREEN LEFT HALF
 L4-1: WINDOW OF 1/16 SIZE AT SCREEN CENTRAL PART
 L4-2: WINDOW OF 1/3 SIZE AT SCREEN RIGHT HALF
 L5 TO L7: DISPLAY PARAMETER OF WINDOW LAYOUT SHOWN IN ANOTHER FIGURE
 L9: PARAMETER OF ICON DISPLAY AT SCREEN LOWER RIGHT

AUDIO MODE

M1: OUTPUT CHANNEL=MAIN SPEAKER MODE=STEREO
 M2: OUTPUT CHANNEL=MAIN SPEAKER MODE=MULTICHANNEL STEREO 1
 M4: OUTPUT CHANNEL=MAIN SPEAKER MODE=TWO LANGUAGES
 M5: NON-AUDIO
 S1: OUTPUT CHANNEL=HEADPHONE MODE=STEREO

FIG. 35

SPORT TV2
DISPLAY PARAMETER L1

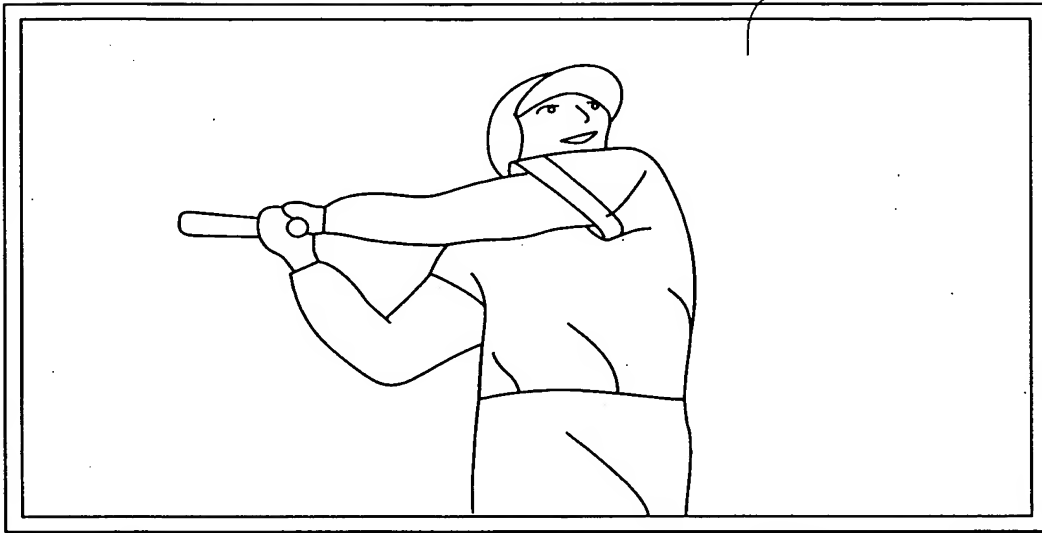


FIG. 36

DOCUMENTARY TV4
DISPLAY PARAMETER L3

HOMEPAGE BROWSER ITN1
DISPLAY PARAMETER L4

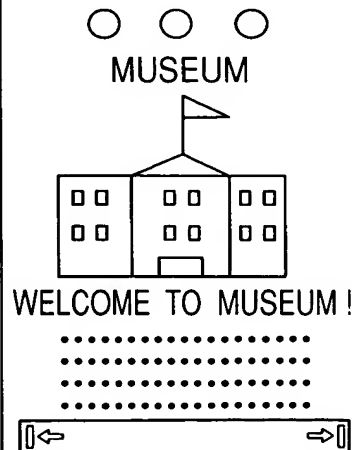
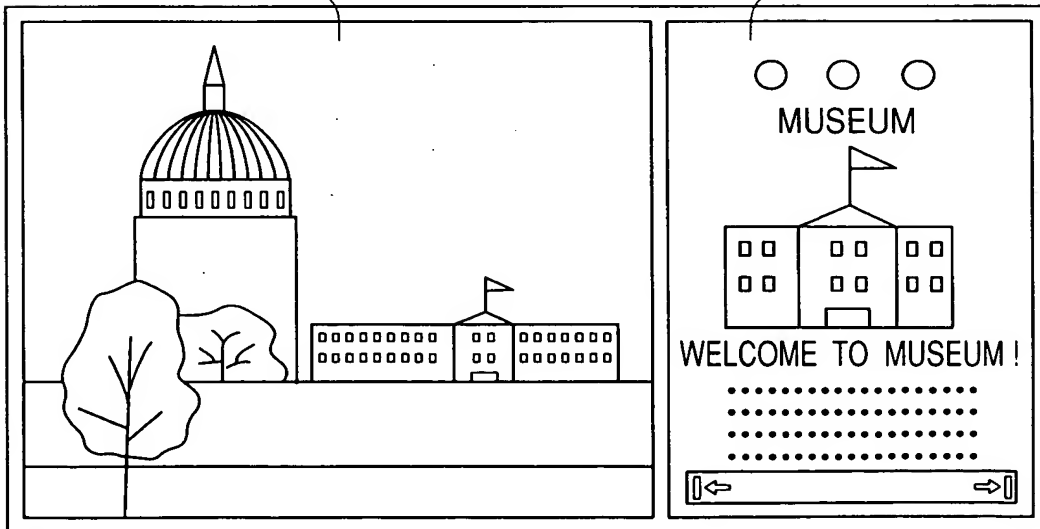
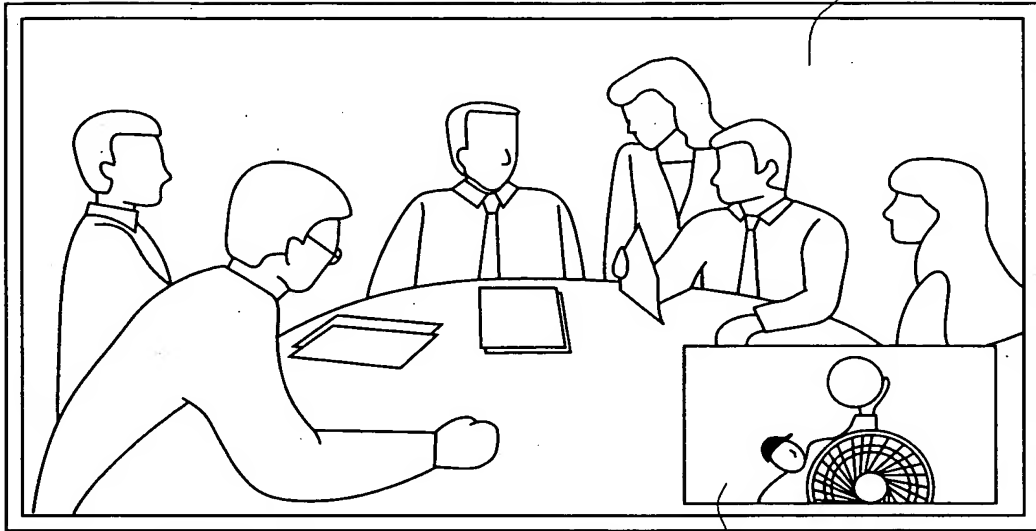


FIG. 37

DRAMA TV3
DISPLAY PARAMETER L1



SPORT TV2
DISPLAY PARAMETER L2

FIG. 38

ANIMATION TV5
DISPLAY PARAMETER L3

DATA BROADCASTING DATA1
DISPLAY PARAMETER L4

